

CLAIMS

I Claim:

1. A dispenser, comprising:

5 a cartridge module having an upper wall and a lower wall defining an interior therebetween, said lower wall including at least one dispenser opening; and

10 a dispensing agent arranged in said interior of said cartridge module, said dispensing agent being in a liquid or powder form to enable said dispensing agent to pass through said at least one dispenser opening in said lower wall.

15 2. The dispenser of claim 1, wherein said lower wall is smaller than said upper wall and said cartridge module includes at least one side wall extending inward from said upper wall to said lower wall such that said dispensing agent moves in a direction toward said lower wall.

3. The dispenser of claim 2, wherein said at least one side wall includes indicia of a filling level of said dispensing agent.

20 4. The dispenser of claim 2, wherein said at least one side wall is transparent.

5. The dispenser of claim 2, wherein said at least one side wall is a single substantially hemispherical-shaped wall.

6. The dispenser of claim 2, wherein said cartridge module includes a reinforcing structure arranged in connection with said at least one side wall.

7. The dispenser of claim 2, wherein said upper wall is
5 circular and defines a circumferential lip which extends circumferentially outward beyond said at least one side wall.

8. The dispenser of claim 1, wherein said lower wall is planar.

9. The dispenser of claim 1, wherein said lower wall is
10 concave.

10. The dispenser of claim 1, wherein said upper wall includes at least one supply opening through which said dispensing agent is insertable into said interior of said cartridge module.

15 11. The dispenser of claim 10, further comprising a covering member for covering said at least one supply opening.

12. The dispenser of claim 11, wherein said covering member is a removable adhesive covering.

13. The dispenser of claim 1, wherein said at least one dispensing opening consists of a single dispensing opening.

14. The dispenser of claim 1, wherein said at least one dispenser opening consists of two dispenser openings.

5 15. The dispenser of claim 1, wherein said at least one dispenser opening consists of three dispenser openings.

16. The dispenser of claim 1, further comprising at least one removable plug for plugging a respective one of said at least one dispenser opening.

10 17. The dispenser of claim 1, wherein said cartridge module is unitary.

18. The dispenser of claim 1, wherein a size and a number of said at least one dispenser opening is selected based on one or more characteristics of said dispensing agent.

15 19. A waste disposal can, comprising:

a base defining a waste-receiving receptacle and an opening leading to said receptacle;

a lid movably mounted to said base and having an open position in which said opening is accessible and a closed position in which said opening is covered; and

5 a dispenser arranged between said base and said lid and at least partially above said opening, said dispenser including a powder or liquid dispensing agent and at least one dispenser opening through which said dispensing agent falls upon movement of said lid to its closed position.

10 20. The waste disposal can of claim 19, wherein said dispenser includes a cartridge module having an upper wall and a lower wall defining an interior therebetween, said at least one dispenser opening being formed in said lower wall, said dispensing agent being arranged in said interior of said cartridge module.

15 21. The waste disposal can of claim 20, wherein said lower wall is smaller than said lower wall and said cartridge module includes at least one side wall extending inward from said upper wall to said lower wall such that said dispensing agent moves in a direction toward said lower wall.

22. The waste disposal can of claim 21, wherein said at least one side wall is a single substantially hemispherical-shaped wall.

20 23. The waste disposal can of claim 20, wherein said upper wall defines a circumferential lip, said lid including retaining members formed on said lower surface and arranged to receive said

lip of said dispenser to thereby mount said dispenser on said lower surface of said lid.

24. The waste disposal can of claim 23, wherein each of said retaining members includes a step-like inner surface defining a receiving lip onto which said lip of said dispenser slides.

25. The waste disposal can of claim 20, wherein said upper wall includes at least one supply opening through which said dispensing agent is insertable into said interior of said cartridge module.

26. The waste disposal can of claim 19, wherein said dispenser is mounted on a lower surface of said lid above said opening.

27. The waste disposal can of claim 19, further comprising connecting means for connecting said dispenser to said lid.

28. The waste disposal can of claim 27, wherein said connecting means comprise a removable adhesive.

29. A dispensing unit, comprising:

a dispenser including a powder or liquid dispensing agent and at least one dispenser opening through which said dispensing agent can pass when said dispenser is jarred; and

5 a housing arranged to hold said dispenser such that jarring of said housing or said dispenser when held by said housing causes a quantity of said dispensing agent to pass through said at least one dispenser opening.

10 30. The dispensing unit of claim 29, further comprising an impact member arranged to jar said dispenser when held by said housing to cause the quantity of said dispensing agent to pass through said at least one dispenser opening.

31. The dispensing unit of claim 30, wherein said impact member is pivotally mounted to said housing and pivotable downward against said dispenser.

15 32. The dispensing unit of claim 30, further comprising a motion sensor arranged in connection with said housing to detect motion below said dispenser and cause said impact member to impart an impact to said dispenser upon detection of motion below said dispenser.

20 33. The dispensing unit of claim 29, wherein said housing includes a vertically oriented surface and attachment means

arranged on said vertically oriented surface to enable said housing to be attached to a wall or other vertical surface.

34. The dispensing unit of claim 29, wherein said housing includes a ledge surrounding an opening, said dispenser resting 5 on said ledge and extending through said opening.